

Quadratics: The affects of a, b, & C values
Standard form of a quadratic $y = ax^2 + bx + c$

The "a" value tells whether it has a maximum or minimum point.

when $a > 0$ the parabola is Concave up
& has a minimum point

when $a < 0$ the parabola is Concave down
& has a maximum point.

Parabola shifts LEFT of y-axis when the
"a" and "b" values are the Same Sign.

Parabola shifts RIGHT of y-axis when

when "a" and "b" values are different Signs.

The "c" value is the y-intercept

The parabola does not shift when $b=0$.
left or right

The greater the $|a|$ the steeper the
parabola

the smaller the $|a|$ the wider the parabola